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APQ-56 Improvement Program

May 14, 1957

SYSTEM													
XH=2 XH=3	2.18	Recorder Cooling -	STAT										
NAVY		XH-2 and XH-3 recorders have all been modified to provide a better cooling system. Drawings are being brought up to date and should be released next week. No further reports will be submitted on this problem.											
XH-2 XH-3 NAVY	4.14	R. F. High Voltage Power Supply -	STAT										
		No substantial progress has been made during the past week. Several adhesives were tried in an attempt to bond the Rexolite, but not any of the adhesives showed satisfactory results. The 3M Company has been made cognizant of our problem and they are sending us a sample of an adhesive that is suppose to give satisfactory bonding to the Rexolite material. The adhesive was expected to arrive early this week.											
All	6.20	P. E. Cell -	STAT										
		Three P. E. Cell Test Sets are being built and tested to establish the sensitivity of P. E. Cells. All sets have been built. The first attem at correlation between sets with rerated lamps gives about ±6% correlation. The lamps are being rerated to give a photo cell output equal th average of all the lamps tested at ET6 rated current.											
All	12.19	Pulse Cable Connectors - No change since last report.	STAT										
ne ∴ared	13.20	AGC - Friedmann,	STAT										
		Design a new AGC that will be less susceptible to r-f interference and to stray audio pick-up.											
		Drafting is checking the completed detail drawings. They expect to finisthis week.											
		Components Engineering is attempting to get complete information on the tests that UTC applies to their coils.											
Time Shared	17.15	Wide Band Receiver -	STAT										
		No change since last report.											
All	19.16	Receiver Design -	STAT										
		Testing of the receiver components is taking longer than expected becau the operating points were not definitely specified. It is hoped that f	se inal										

tests can be completed within the next report period.

SYSTEM		
All	20.12	Pulse Width - STA
•		The line type modulator breadboard has been completed and several tests run utilizing the 6799 magnetron. An R-F envelope of 0.1 us (3db points) has been obtained but some operational difficulties have been encountered.
		Investigation of the above will continue.
All	21.14	Pulse Width (Quick Fix) - STA
		No change since last report.
All	22.11	Resolution Test Set - STA
		A means of measuring recorder resolution is needed in the field. Eight Resolution Test Sets are being built by S. R. for the Time Shared System using commercial type construction. Assembly and wiring have been delayed because of interference of recorder cooler work for the XH-2 system. Writing of a handbook has been started. Test procedures are being prepared.
Time Shared	211.5	Deflection Driver Drift - STAT
XH-3 NAVY		No change since last report.

			REMARKS	133	*Par Ed Arnold - Need Kit	*Per Ed Arnold - Need Kit		Reshipped new contact boards ->5/14/57.	SPAINT TOY U) P.C. IN SYSTEM BOP TO	2515 Tiem, 5125 Of Earlier, 5155	waiting on P.O. #05544 From.(6)	Need XH-2 Kit from Engrg.				All papers reshipped by 5/16/57.	5/N 06 reshipped 5/3/57.		Waiting parts on P.O.C16715		Swort of To U.B. Mott. (Need Kit from Engly)	Waiting parts on P.O. 86C16715 - Prom. 5/17. (Diodes)	*Needs rectifiers on P.O.				
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LEGEND	- APPLY A - HON APPLICABLE I - WATTYO SHIPPING INSTRUCTIONS	- WILL SHIP	- INSTALLED	DESCRIPTION	Recorder Cooler	Camera Cooling	Camera Servo Motors	Focus & Alignment Fixture	Recorder 10 KV Power Supply	Power Supply Fuse Protection for 28 V.	Socus Alignment Fixture R Provide for Rear Antenna S Feed	Control Panel to Prevent Synchro Damage	Synchronizer - Replace Clutch in Alt. Serva.	Power Supply Decrease 400 v Ripple	Maggie Seal	Ant. System Adjust Angle of Pod	Ground Range Sweep Add Clemping Circuit	Cabling, Accessories and Waveguide	M/G AGC Clamp Video Amp.	Name Plates Replace Temporary	Cooling Fins Maggie & Klystron	Trigger Circuit (Overload at Turn-On)	Rectifier R.F. Head				
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